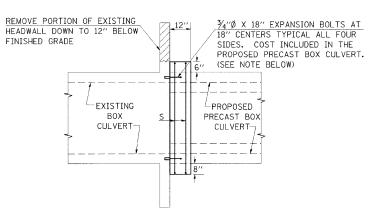
DETAILS OF CONCRETE COLLAR FOR PRECAST BOX CULVERT



SPAN

6"

SPAN

6"

2 - *5 S BARS TYPICAL

COST INCLUDED IN THE

PROPOSED PRECAST BOX

CULVERT.

END VIEW

SIDE VIEW

THE CONCRETE COLLAR SHALL BE CONSIDERED INCLUDED IN PRECAST CONCRETE BOX CULVERT, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED, CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

NOTE:

ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 9 INCHES INTO THE NEW CONCRETE. EXPANSION SHIELDS SHALL PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 4080 POUNDS.

NOTE:

TABULATION (FOR INFORMATION PURPOSES ONLY)

11 011 2111 011111711201	1 1 DIN COLO CINETI
SPAN X RISE	CLASS SI CONC. CU. YD. (EST.)
2' X 2'	0.26
3′ X 2′	0.30
3′ X 3′	0.34
4' X 2'	0.36
4′ X 3′	0.39
4′ X 4′	0.43
5′ X 2′	0.41
5′ X 3′	0.45
5′ X 4′	0.49
6′ X 2′	0.47
6′ X 3′	0.51
6′ X 4′	0.54

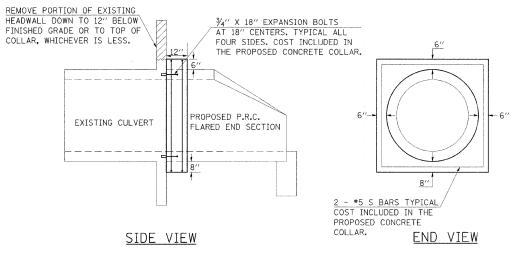
DRAWN 8-15-89 REVISED 12-17-01 REVISED 2-15-90 REVISED REVISED 8-10-90 REVISED STD. 9-45 REVISED 8-19-94 REVISED			REVIS	SIONS		
REVISED 8-10-90 REVISED						12-17-01
STD Q_45 REVISED 8-10-90 REVISED						
			REVISED	8-10-90	REVISED	
3 LD* 2 43 KENIZED 8-13-34 KENIZED	STD.	9-45	REVISED	B-19-94	REVISED	

CLACE ST COMO

DETAIL OF CONCRETE COLLAR FOR P.R.C. FLARED END SECTION

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
932	(8,9,11)W,RS-1		401	199
STA.		TO STA.		
FED. R	OAD DIST. NO	ILLINOIS	FED. AID F	ROJECT
	· INDINSON & DO	DE		

CONTRACT NO 98542



TABULATION

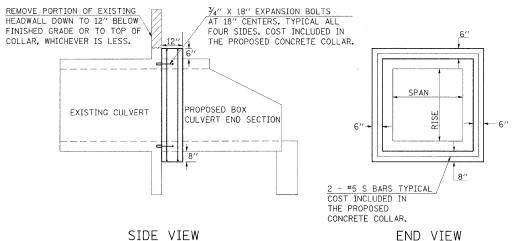
DIAMETER OF PIPE	CLASS SI CONC. CU. YD. (EST.)
12''	0.16
15''	0.19
18''	0.23
24''	0.29
30"	0.37
36"	0.44
42''	0.53
48′′	0.62
54′′	0.71
60′′	0.81
72′′	1.03

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED, CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

NOTE:

ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 9 INCHES INTO THE NEW CONCRETE. EXPANSION SHIELDS SHALL PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 4080 POUNDS.

DETAIL OF CONCRETE COLLAR FOR PRECAST BOX CULVERT END SECTION



ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS,

SHALL EXTEND A MINIMUM OF 9 INCHES INTO THE NEW CONCRETE. EXPANSION SHIELDS SHALL PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 4080

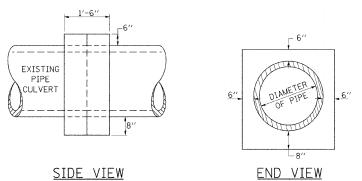
TABULATION

SPAN X RISE	CU. YD. (EST.)
2′ X 2′	0.26
3′ X 2′	0.30
3′ X 3′	0.34
4′ X 2′	0.36
4′ X 3′	0.39
4′ X 4′	0.43
5′ X 2′	0.41
5′ X 3′	0.45
5′ X 4′	0.49
5′ X 5′	0.53
6′ X 2′	0.47
6′ X 3′	0.51
6′ X 4′	0.54
7′ X 5′	0.64
8′ X 3′	0.61
8′ X 6′	0.72
9′ X 6′	0.78
10′ X 5′	0.79

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED. CLASS SI CONCRETE SHALL BE USED

DETAILS OF CONCRETE COLLAR

PIPE TO PIPE



TABULATION

DIAMETER	CL SI CONC
OF PIPE	CU YDS EST
12"	0.24
15"	0.29
18′′	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48''	0.93
54''	1.07
60′′	1.22
72"	1.55

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR **CONCRETE COLLAR,** AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

DETAILS: CONCRETE COLLAR FOR PRECAST BOX CULVERT, CONCRETE COLLAR FOR PRECAST BOX CULVERT END SECTION

CONCRETE COLLAR FOR P.R.C. FLARED END SECTION, CONCRETE COLLAR PIPE TO PIPE